U-SR / Microbiology. General Microbiology. Effect of External Agents. Disinfection.

Abs Jour: Ref Zhur-Biol., No 2, 1959, 5436.

: Bokurova, Ye. N.

: Not given. / -Radiators on Develogment and Phys-: Effect of / -Radiators of Azotobacter. Author Inst

iological Activity of Azotobacter. Title

Orig Pub: Mikrobiologiya, 1957, 26, No 5, 519-535.

Abstract: The effect of a mixture of  $\beta$ -radiators (fragments of uranium-235 fission) on Azotobacter development was studied. The radiators were introduced into nutritive media in concentrations of 0.1-160 millicurie/liter. Upon introduction of small quantities of radiators into nutritive media, a temporary stimulation of bacterial develop-

Card 1/3

6

USSR / Microbiology. General Microbiology. Effect of External Agents. Disinfection.

APPROVED FOR RELEASE: 08/25/2000, 1961A-RDF86-00513R001652130013-9"
Abs Jour: Ref Zhur-Bloi.

Abstract: ment is noted. Individual processes taking place in the cells display different sensitivity to the action of radiators. The most sensitive is cell division, and the most stable are energy processes and fixation of atmospheric nitrogen. Although fixation of atmospheric nitrogen is a very stable process, incorporation of fixed nitrogen into protein becomes disturbed at comparatively low concentrations of radiators, and in media and cultures there is a change of the relation of protein and non-protein nitrogen towards the increase of the nonprotein part. Under cultivation in media with radiators, the Azotobacter cells strongly concentrate the radio-

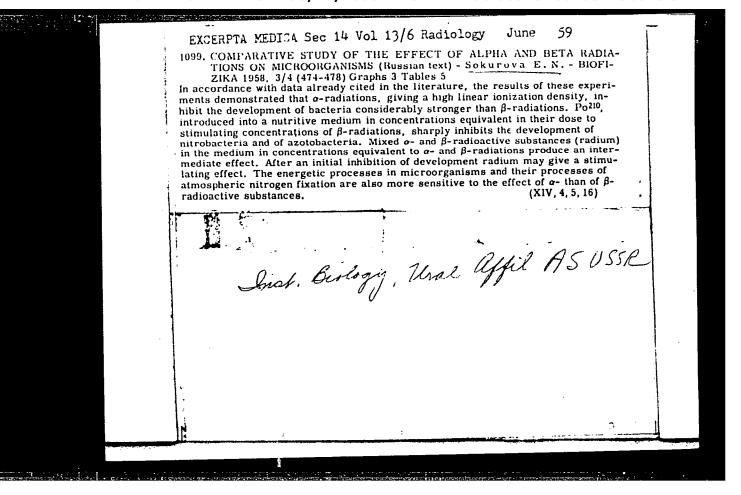
Card 2/3

---- General Microbiology. Effect of External Agents. Disinfection.

Abs Jour: Ref Zhur-Biol., No 2, 1959, 5426.

Abstract: active elements: the radioactivity of the the

dry biomass exceeds 500-600 times that of the



AUTHOR:

Sokurova, Ye. N.

20-119-2-19/60

TITLE:

X-Ray Induced Hereditarily Modified Forms of Yeast Organisms Producing Increased Amounts of Ergosterin (Vozniknoveniye pod vliyaniyem rentgenovskikh luchey nasledstvenno izmenennykh form drozhzhevykh organizmov, obrazuyushchikh povyshennoye

kolichestvo ergosterina)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1958, Vol 119, Nr 2,

pi 265 - 266 (USSR)

ABSTRACT:

In the irradiation of yeast organisms with great dosages of X-ays and in their subsequent cultivation on nutrients a considerable amount of ergosterin accumulates in them. Such cultures contain 2-3 times as much ergosterin as non irradiated cultures. In connection herewith it is of interest to investigate if considerably modified yeast organisms (producing an increased amount of ergosterin) can form on the action of this irradiation. For the investigation a culture of Saccharomyces carlsbergersis Frohberg with a normally rather high ergosterin content was selected. The irradiation was carried out in aqueous solutions by means of the X-ray appa-

Card 1/4

20-119-2-19/60

X-Ray Induced Hereditarily Modified Forms of Yeast Organisms Producing Increased Amounts of Ergosterin

content. In long lasting cultivation without repeated irradiation the high content of ergosterin in the irradiated races slowly decreases. Thus the hereditary feature of this characteristic is not very marked. An occurrence of yeast races with increased ergosterin content is also possible in the case of irradiation with ultraviolet light. The irradiated yeast races with increased ergosterin content do not essentially differ in their radiation sensitivity from the original forms, although indications exist of a possible protective action of ergosterin against radiation dependent injuries. There are 2 tables and 2 references, 2 of which

ASSOCIATION:

Institut mikrobiologii Akademii nauk SSSR (Institute for Microbiology AS USSR)

Card 3/4

HETSEL, M.N., REMEZOVA, T.S., CALDOVA, R.D., HEDGEDEVA, G.A., FORESHERHKOVA, W.A., SOKUHOVA, VE.N., SELIVERSHOVA, L.A., PEGLASOVA, M.N. and MOVICHEOVA, A.T.

"Cytophysiclegical and biochemical investigation of micro-organisms in the process of post-radiation teactivation."

Report submitted to the 2nd Intl. Congress of Endiation Research, Harrogate/Torkshire, Gt. Brit.

S-11 Aug 1962

SOKUROVA, Ye.N. (Moskva)

Development of radioresistance in micro-organisms. Usp. soor. biol.
53 no.1:69-84 \*62. (MIRA 15:5)
(MICRO-ORGANISMS) (RADIATION--PHYSIOLOGICAL EFFECT)

SOKUROVA, E.N. [Sokurova, Ye.N.]

Emergence of radioresistance in microorganisms. Analele biol 16 no.5:23-41 S-0 162.

Elecherical surations in Torulossis unilis following the section of ionizing irradiations. Radiobiologiia 2 no.1326-12 Ja 762 (MIRA 1521)

#### CIA-RDP86-00513R001652130013-9 "APPROVED FOR RELEASE: 08/25/2000

SOKURSKIY, Yu. N.

Jun 50

USSR/Physics-X-Ray Analysis

"X-Ray Methods of Adjusting Crystals," S. S. Kvitka, Yu. N. Sokurskiy, M. M. Umanskiy, Moscow State U

"Zavod Lab" Vol XVI, No 6, pp 696-705

Describes X-ray methods for adjusting crystals of any syngony by x-ray photographs of oscillations or Lave patterns. Suggests more expedient construction of film holder and goniometric head for X-ray camera.

PA 163T85

KONOBEYEVSKIY, S.T., ZAYMOVSKIY, A. S., LEVITSKIY, B. M., SOKURSKIY, YU N., CHEBOTAREV, N. T., BOBKOV, V. V., YEGOROV, P.P., NIKOLAYEV, G. N. and IVANOV, A. A.

"Some dPhysical Properties of Uranium, Plutonium and Their Alloys,"

paper to be presented at 2nd UN Intl." Conf. on the peaceful uses of Atomic Energy, Geneva, 1 - 13 Sept 58.

#### CIA-RDP86-00513R001652130013-9 "APPROVED FOR RELEASE: 08/25/2000

于THORS:

Sokurskiy, Yu. H., Protsenko, L. N.

89-4-5-5/26

ÍITLE:

Deformation Systems of  $\alpha ext{-Zirconium}$  (Sistemy deformatsii

α-tsirkoniya)

PERIODICALS:

Atomnaya Energiya, 1958, Vol. 4, Nr 5,

pp 443 - 447 (USSR)

ADSTRACT:

The deformation systems of  $\alpha$ -zirconic iodide were investigated in large-grained (average diameter 0.5 - 1.5 mm), semicrystalline (5 x 5 x 7 mm) samples that had been deformed by annealing. The orientation of the grains was determined by a Laue diagram. This was taken by a special reflex camera with the light ray having particularly small dimensions. The indices of the deformation systems were determined by means of the double-plate method or of the method of geometrical

localization of the poles.

It was stated that  $\alpha\text{-zirconium}$  is deformed by slip in the plane (1010) in direction [1210] and in the plane (1011). A series of twinning-systems was determined in  $\alpha$ -zirconium:

Cand 1/2

a)  $K_1(10\overline{12}), \eta_1[1011], K_2(10\overline{12}), \eta_2[10\overline{11}], s = 0,173$ 

Deformation Systems of  $\alpha$ -Zirconium

89-4-5-5/26

b)  $K_1(11\overline{21}), \eta_1[1126]$ ,  $K_2(0001), \eta_2[1120]$ , s = 0,629c)  $K_1(1122), \eta_1[1123]$ , d)  $K_1(11\overline{23}), \eta_1[\overline{11}22]$  observed in one case only.

There are 5 figures, 1 table and 6 references, none of which are Soviet.

SUBMITTED:

December 14, 1957

AVAILABLE:

Library of Congress

1. Alpha-mir conic iodide-Deformation

Card 2/2

CIA-RDP86-00513R001652130013-9" APPROVED FOR RELEASE: 08/25/2000

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Augh Ba: Zaymovskin. A. J., Gergeyev, G. Ya., Titova. V. V., Lambide S. R. W., Churship. Yu. N.

The influence of the Structure and Properties of Branion of Branion of Structure and Properties of Branion of Branion

urana na vego povedenive pod obluchenivem)

PERIODICAL: Atomnaya energiya, 1958, Vol 5, Nr 4, pp 418-426 (1958)

ABOTRACT: It was possible to show that by varying the composition of the alloys and by changing the thermal treatment the consequences of the modification of the size of grain of the nucleus and the texture of uranium after irradiation can partly be eliminated. The dependence of the size of the nuclear grain of the enriched uranium, its hardness, its strength limit, and its stretching-

strain limit upon the iron-, silicon-, and aluminum content in the altoy is determined by experiment. The cooling-down rate and the content of the admixtures mentioned influence the position of the  $\beta$ -a transformation point. At a cooling-down rate of  $400^{\circ}$  C/sec and a silicon content of 0.05 weight percents the transformation point between the  $\beta$ - and the a-phase decreases

Lord 2 to 530°C. Experiments proved a 50- to 100-fold acceleration of

COV 59-5-4-3/24

The Influence of the Structure and Properties of Uranian on Its Behaviour Under Orrediction

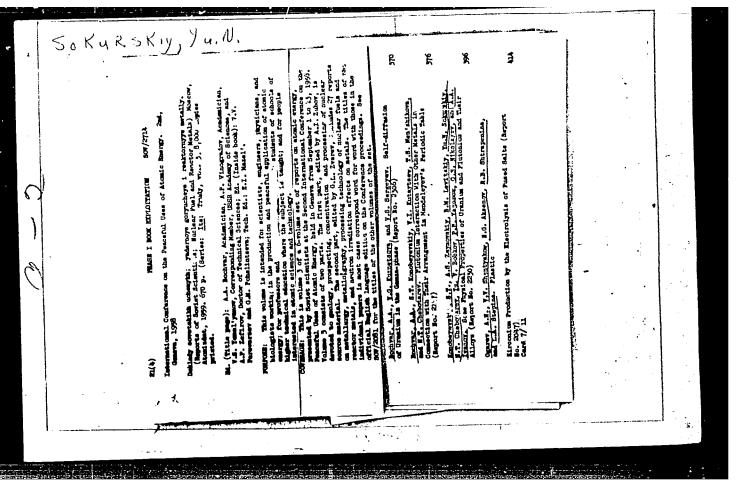
preep under irradiation (nv = 1.10 12 n/cm .sec) for fext red granium as well as for granium with a disorientated cructure. The creep-rate of disorientate granium is closely connected with the velocity of stand-by losses. The mechanical properties of granium, especially dilatation in the reactor, sere investigated experimentally. Even after a short stay of the granium in the reactor (less than 1 hour) the relative modification of the length become less and the strength limit increases. The experimentally found values of G are considerably nights than those given in reference 3. A. G. Lanin, V. M. Taplingkows, V. V. Zakharova, L. A. Protsenko, V. N. Golovanova, and F. A.

those given in reference 3. A. G. Lanin, V. M. Pepiness and V. K. Zakharova, L. A. Protsenko, V. N. Golovanova, and V. M. Borisov took part in the inventigations. There are to figures, I table, and 12 references, I of which is device.

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BOCHVAR, A.A., akademik, red.; YEMEL'YANOV, V.S., red.; ZVEREV, G.L., red. toma; IVANOV, A.N., red. toma; SOKURSKIY, Yu.N., red. toma; STERLIN, Ya.M., red. toma; PEREVERZEV, V.V., red.; PCHELINTSEVA, G.M., red.; MAZEL', Ye.I., tekhn. red.

[Transactions of the International Conference On The Peaceful Uses of Atomic Energy] Trudy Vtoroy mezhdunarodnoy konferentsii po mirnomu ispol'zovaniyu atomnoy energii, 2d, Geneva, 1958. Izbrannye Doklady inos rannykh uchenykh. Moskva, Izd-vo Glav. uprav. po ispol'zovaniiu atomnoi energ. pri Sovete Ministrov SSSR. Vol.6. [Nuclear zovaniiu atomnoi energ. pri Sovete Ministrov SSSR. Vol.6. [Nuclear fuel and ractor materials] IAdernoe goriuchee i reaktornye materialy. Pod obshchei red. A.A.Bochvara i Emel'ianova V.S. 1959. 702 p. (MIRA 14:10)

International Conference on The Peaceful Uses of Atomic Energy.
 Geneva, 1958.
 Chlen-korrespondent AN SSSR (for Yemel'yanov).
 (Nuclear fuels)

21(8), 18(7)

SOV/89-6-4-4/27

AUTHOR:

Sokurskiy, Yu. N.

TITLE:

The Influence of Radiation Upon Solids (Vliyaniye oblucheniya

na tverdyye tela)

PERIODICAL:

Atomnaya energiya, 1959, Vol 6, Nr 4, pp 403-425 (USSR)

ABSTRACT:

On the basis of the Geneva reports of 1958 listed below this review has been compiled and deals with the subject mentioned in the title. As far as the quantitative damage done to irradiated material can be experimentally determined, it is recorded by tables like the damage caused by neutron irradiation in uranium, plutonium, and some of their alloys. Also the influence exercised by a high degree of burn-up (up to 2 atomic%) upon the shape of the individual parts made from uranium and its alloys as well as the increase of volume connected therewith is taken into account. The data concerning uranium-molybdenum alloys (9% by weight) and pure uranium are given separately. These data show the extent of the influence exercised by irradiation upon atomic mobility in uranium and its alloys. The abstract contains also data concerning the influence exercised by temperature and the radiated dose upon the mechanical properties of the various types

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The Influence of Radiation Upon Solids

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of steel and other building materials. Furthermore, data concerning the influence exercised by irradiation upon non-metallic materials such as BeO, UO\_BeC, UO\_ThO\_, graphite, etc, are given. The following reports were used for the compilation of inf rmation: 29, 50, 80, 190, 612, 614, 617, 618, 621, 622, 679, 713, 998, 1158, 1159, 1452, 1785, 1805, 1855, 1866. 1878, 1890, 1978, 2052, 2129, 2192, 2385, 2465. There are 12 figures, 2 tables, and 34 references, 8 of which are

SUBMITTED:

February 7, 1959

Card 2/2

S/089/60/008,'04/04/009 B113/B017

AUTHORS:

Sokurskiy, Yu. N., Bobkov, Yu. V.

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TITLE:

Investigation of the Increase in Internal Friction in Samples

of Polycrystalline Uranium With Temperature Variation

PERIODICAL: Atomnaya energiya, 1960, Vol. 8, No. 4, pp. 348-353

TEXT: Samples of polycrystalline uranium of varying composition were investigated which had been hardened from the gamma phase, annealed in the gamma phase and such which had been recrystallized. The experiments were made in three temperature intervals from 20 to 290°C. In this connection the dependence of the increase in internal friction on the heating rate and the various structural states was observed. The rapidity with which internal friction increases is gradually reduced and attains a value which is approximately proportional to the heating rate of the sample. The increase in internal friction is related with the strain which is produced in the sample with temperature variation due to the anisotropy of the coefficient of thermal expansion. At temperatures exceeding 350°C the effect of the increase in internal friction is

Card 1/2

Investigation of the Increase in Internal \$\, 5/089/60/008/04/04/009\$ Friction in Samples of Polycrystalline Uranium \$\, B113/B017\$ With Temperature Variation

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practically completely lacking. On heating the samples even measurable macroscopic changes can be observed. There are 6 figures, 1 table, and 11 references: 5 Soviet, 2 English, and 4 American.

SUBMITTED: May 30, 1959

13

Card 2/2

85562

S/089/60/009/005/005/020 B006/B070

21,1330

Sokurskiy, Yu. N., Bobkov, Yu. V.

 $\mathcal{A}$ 

AUTHORS:

Increase of Internal Friction in Uranium on a Change of

Its Temperature

PERIODICAL:

Atomnaya energiya, 1960, Vol. 9, No. 5, pp. 392 - 398

TEXT: The present paper follows a previous one in which it was established that the internal friction of uranium increases rapidly on heating. This increase in internal friction is attributed to microstresses and deformations of the polycrystalline grains of the sample due to anisotropic change of form of the crystals on change of temperature. A theoretical and an experimental part of the present paper give a semiquantitative estimate of the dependence of the increase of internal friction on the rate of neating, the frequency, and the amplitude of pendulum oscillations. First, the temperature-dependent change of deformation  $\xi$  and stress  $\sigma$  in a grain of  $\sigma$  uranium (average coefficient of linear expansion  $\sigma_m = 17.3 \cdot 10^{-6}$ ) is theoretically studied and some

Card 1/4

85562

Increase of Internal Friction in Uranium S/089/60/009/005/020 on a Change of Its Temperature B006/B070

formulas are derived. The theoretical dependence of the increase of internal friction on heating from  $20^{\circ}$  to  $120^{\circ}$ C on the quantity v<sub>T</sub> (v - rate of heating,  $\tau$  - period of oscillation) is compared with the experimental values in Fig. 3. The apparatus used for the experiment, and the method of preparation of the samples were the same as described in Ref.1; the method was changed in unimportant details. The results of the experiments are discussed in detail. It is found that the increase of internal friction as a function of the heating time for different values of  $\tau$  and  $v \leq 50^{\circ} \text{C/min}$  is similar to the previously obtained result for  $\tau = 0.5$  sec and  $v \le 20^{\circ} \text{C/min}$ . The details of the dependence are shown in Fig. 3. There were great difficulties involved in the determination of the amplitude dependence. Fig.4 shows the change  $\Delta$  of internal frice tion as a function of  $A_{max}$ . It was experimentally found that  $\Delta = 7.2 \cdot 10^{-3} + 3.5 \cdot 10^{-8} / A_{max}$ . The effect of the initial state of the sample on the increase of internal friction was studied, and is shown in several diagrams. It is found that on a change of temperature the relaxation processes in polycrystalline uranium are intensified and lead to an increase of internal friction. The increase of internal

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85562

Increase of Internal Friction in Uranium on a Change of Its Temperature

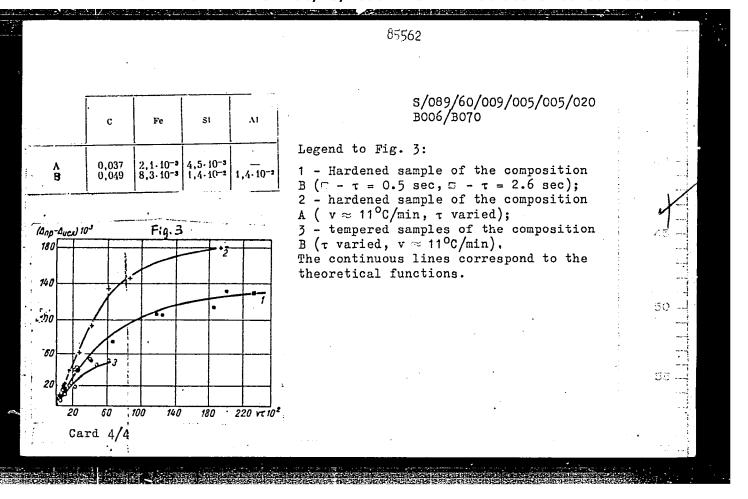
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friction depends mainly on  $v\tau$ . For small values of  $kv\tau/A$ , it is proportional to  $v\tau$ ; for large values, however, saturation is reached. The theoretical estimates are in good agreement with the experimental data. There are 6 figures, 1 table, and 3 Soviet references.

SUBMITTED:

April 4, 1960

Card 3/4



SOKURSKIY, Yu.N.

Haziquti, Sakairi, and Sugai theory of the growth of x-uranium during its fradiation. Atom. energ. 10 no.3:274-275 Mr '61.

(Uraniwa)

#### CIA-RDP86-00513R001652130013-9 "APPROVED FOR RELEASE: 08/25/2000

s/089/61/010/005/014/015 B102/B214

AUTHOR:

Sokurskiy, Yu. N.

Conference on the Effect of Nuclear Radiation on Materials

TITLE:

Atomnaya energiya, v. 10, no. 5, 1961, 540-542

TEXT: In December 1960 there took place in Moscow the Soveshchaniye po deystviyu yadernykh izlucheniy na materialy (Conference on the Effect of Nuclear Radiation on Materials) organized by the departments of technical, physical and mathematical sciences of AS USSR. More than 500 participants and more than 40 papers were registered. In a review talk S.T. Konobeyevskiy gave the results of investigations in and outside of USSR in this field and discussed the problems of plasticity and solidity. G. V. Kurdyumov next spoke on the origins of the increase of the deformation resistance by the irradiation of copper, iron and their alloys. Then followed lectures by S. M. Feynberg (new experiments with CM-2 (SM-2) reactor on radiation effects in materials), N. F. Pravdyuk (reliation effects on low carbon stells), A. D. Amayev, A. V. Yefimov, O. A. Kozhevnikov and others (radiation effects on steels alloyed with titanium and tungsten), V. S. Lyashenko

Card 1/3

Conference on the Effect of Nuclear ...

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and others (microstructural change on account of neutron irradiation of y-7 (U-7) and 3X13 (3Kh13) steels), I. M. Pronman and others (effect of neutron irradiation on white cast iron and cementite), P. A. Platonov (relaxation of inner stresses as a result of irradiation of nickel, nichrome alloy, zirconium, perlite steel, and special spring steel). Over analogous effects on Pt, Mo, Zr, Cu, Ni, bronze, Fe-Al alloy, Fe-Cr alloy, and Y-8 (U-8) steel, there were papers by B. M. Levitskiy, I. Ya. Dekhtyar, A. M. Shalayev, and others. Yu. I. Pokrovskiy, A. I. Zakharov, and others reported on the effect of large doses (~5.1020 n/cm2) on the inner friction and elastic modulus of Cu, Mg, Al, and Ni. Other speakers were: S. T. Konobeyevskiy and others (effect of reactor radiation on bronze with 1 at% Pu for doses of  $10^{18} - 10^{20}$  n/sec), S. D. Gertsriken and N. P. Plotnikova (effect of ~ 1020 n/cm2 on the electric resistivity and lattice constant of Fe3Al), S. M. Astrakhantsev and Yu. I. Konnov (effect of  $\sim 10^{17}$  n/cm<sup>2</sup> on the K state in X20H80 (Kh20N80) alloy), S. T. Konobeyevskiy and F. P. Butra (diffuse scattering in irradiated single crystals of Si, Mo, Corundum, and diamond), I. V. Telegina and Ye. V. Kolontsova (fragmentation of LiF crystals under

Card 2/3

Conference on the Effect of Muclear...

S/089/61/010/005/014/015 B102/B214

neutron irradiation), E. L. Andronikashvili (radiation effects on KC1), A. V. Byalobzheskiy (radiation effect on corrosion), A. K. Kikoin, S. V. Starodubtsev (effect of γ-radiation on floatation and adsorption properties of silica gel), I. Ya. Dekhtyar and A. M. Shalayev (effect of γ-radiation on ferromagnetic metals and alloys), I. D. Konozenko and others (effect of γ-radiation on CdS and CdSe), S. V. Starodubtsev and others (effect of γ-radiation on amorphous selenium and boron), S. V. Starodubtsev, S. A. Azizov, Sh. A. Vakhidov, E. I. Trinkler, and others (effect of γ-radiation on quartz, Rochelle salt, and ferrite). Many papers were concerned with the methods of irradiation and the study of activated samples; M. F. Pravdvuk, A. D. Amavev, V. A. Nikolayenko, B. M. Invitabiu, B. M. Sharov, A. I. Orlov, and others spoke on problems of this kind. The reports on the conference will be published by the Academy of Sciences of USSR. There is 1 Soviet-bloc reference.

Card 3/3

L 4CCO4-65 EPA(s)-2/EWT(m)/EWP(v)/T/EWP(t)/EWP(k)/EWP(b)/EWA(h)/EWA(c)
Pf-4/Peb JD/HM/GS
ACCESSION NR: AT4049819 S/0000/64/000/000/0104/0108

AUTHOR: Konobeyevskiy, S.T.; Levitskiy, B.M.; Sokurskiy, Yu. N.; Andreyev, G.A.

TITLE: The possibilities and prospects of hardening metals and alloys by irradiation

SOURCE: Soveshchaniye po uprochneniyu detaley mashin, 1962. Protsessy uprochneniya detaley mashin (Processes of the hardening of machine parts); doklady soveshchaniya. Moscow, Izd-vo Nauka, 1964, 104-108

TOPIC TAGS: metal irradiation, alloy irradiation, gamma irradiation, beta irradiation, neutron bombardment, metal hardening, metal surface hardening, radiation hardening

ABSTRACT: It is well known that irradiation may cause not only a deterioration of metal properties, but also their improvement. Thus, radiation sharply increases the yield point and moderately increases the ultimate strength and wear resistance. Hardening under irradiation is accompanied by lowering of plasticity. Different types of radiation, however, act differently on the atoms of the irradiated material. When the primary particles interact with the atoms of metals, energy is transmitted to the metal atoms. When this energy exceeds about 25-35 electronvolts, the atom is displaced from the lattice, and the energy of the first displaced atom may be sufficient for the displacement

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of other atoms. Thus, clusters of displaced atoms are formed. This displacement affects the properties of alloys considerably. The number of secondary displaced atoms depends on the energy of the primary displaced atom. Under neutron bombardment, when the energy of the primary displaced atoms is great, this number may be several hundred, while gamma and beta irradiation only produces 1 to 2. Point defects arise under irradiation, changing the properties of the metals (increasing electrical resistance, lowering internal friction, increasing the modulus of elasticity, etc.). Dislocations are formed by irradiation, resulting in hardening, which can in some cases be increased by additional irradiation. The future of radiation hardening lies in a combination of irradiation with subsequent heat treatment, irradiation being the initiating factor. It should be noted that new elements are created by irradiation with different properties. At the present stage of development of nucleonics, the cost of irradiation in an atomic pile is too high for neutron bombardment to be used for increasing the strength of large sets of parts. Even though gamma irradiation is weaker, the same results are obtained and it may be used in the future since the material does not become radioactive. Electron irradiation produces changes in structure in the same way as gamma irradiation, but only in the surface layer, causing surface hardening by heating. Heavy ions are also being

Card 2/3

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ACCESSION NR: AT4049819

used for irradiation, resulting in even better hardening of materials. The layers arising under irradiation differ from diffusion layers and may be irregular, but the stability may be increased and the bond with the base metal is better; only the first steps have been made in this direction. Orig. art. has: 3 figures.

ASSOCIATION: none

SUBMITTED: 21May64

ENCL: 00

SUB CODE: MM

NO REF SOV: 004

OTHER: 003

Card 3/3

DUMITRESCU, Traian; IONESCU, Constantin; SOLACOLU, M.

Determining kinetics of austerite transformation into bainite. Studii cero metalurgie 6 no.4:359-374 '61.

l. Membru al (mitetului de redactie, "Studii si cercetari de metalurgie" (for Dumitrescu).

DUMITRESCU, Traian; SOLACOLU, N.

Nodular cast iron alloyed with silicon, and gray iron alloyed with copper, as materials for piston rings. Studii cerc metalurgie 6 no.4:395-411 161.

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DUMITRESCU, Tr.; IONESCU, C.St.; SOLACOLU, M.

Studies on the isothermic transformation of austenite in some alloyed and nonalloyed steels. Studii cerc metalurgie: 7 no.3:283-303 '62.

1. Membru al Comitetului de redactie, "Studii si cercetari de metalurgie" (for Dumitrescu).

IONESCU, Constantin, St.; SOLACOLU, Maria

Some scientific criteria for the thermal treatment of steels. Metalurgia constr mas 14 no.4:302-317 Ap '62.

1. Centrul de cercetari metalurgice.

RUMANIA

DUMITRESCU, Traian; IONESCU, Constantin St.; SOLACOLU, Maria

(None)

Bucharest, Studii si Cercetari de Metalurgie, No 2, 1963, pp 131-153

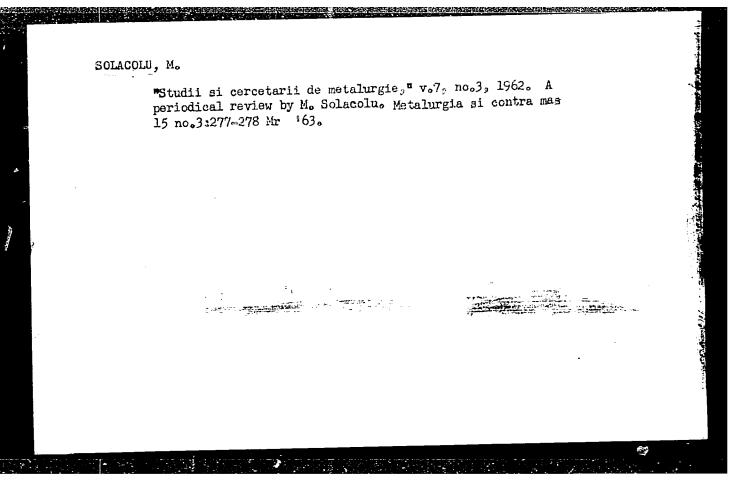
"Aspects of the Process for Forming 'Bainite' In Some Carbon Steels and Alloy: Fe-C-Mn."

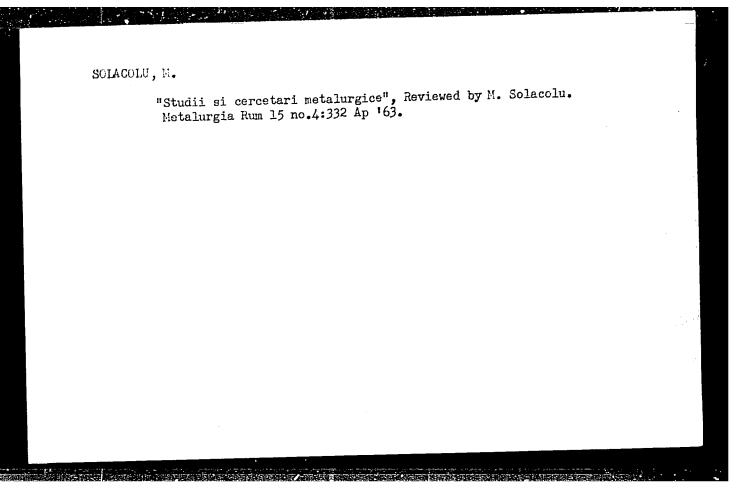
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DUMITRESCU, Traian, ing.; IONESCU, Constantin St., ing.; SQLACOLU, Maria ing.

Contributions to the knowledge of the isothermal transformation of austenite in the Ar'! domain, Metalurgia constr mas 15 no.1:9-18 Ja '63.

1. Centrul de cercetari metalurgice al Academiei R.P.R.





DUMITRESCU, Traian; IONESCU, Constantin St.; SOLACOLU, Maria

Aspects of the forming process of nainite in some carbon steels and Fe-C-Mm alloys. Studii cerc metalurgie 8 no.2: 131-153 163

DUMITRESCU, Traian; IONESCU, Constantin St.; SOLACOLU, Maria

Aspects of the bainite formation process in some carbon steels and Fe-C-Mn alloys. Rev Roum metalurg 8 no. 2:155-174 '63.

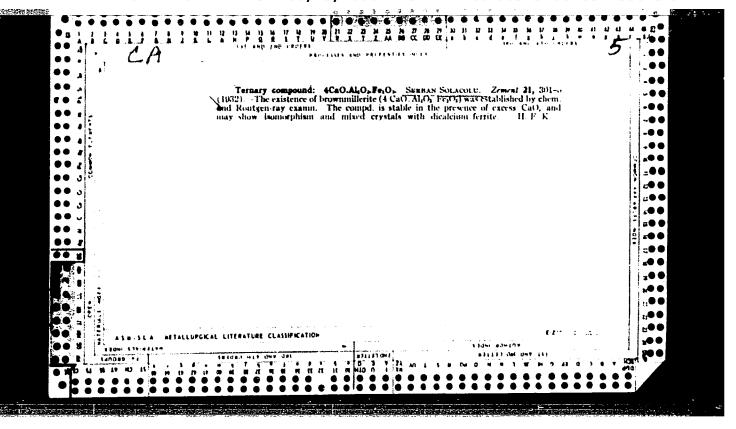
30/2000 U, Serban

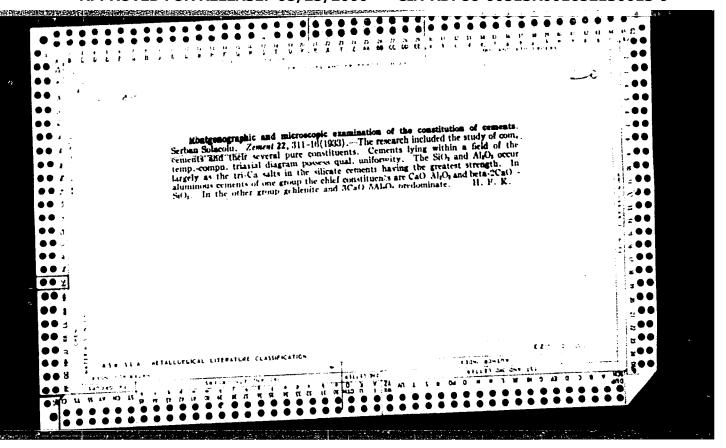
Correlation between thermal phone equilibria in the system MgC. and AlgOg SiOg and the nature of litreous structures and the sulfate hardening properties of black furnace class. Roy eldmin flows 2 no. 10:623-617 C 104.

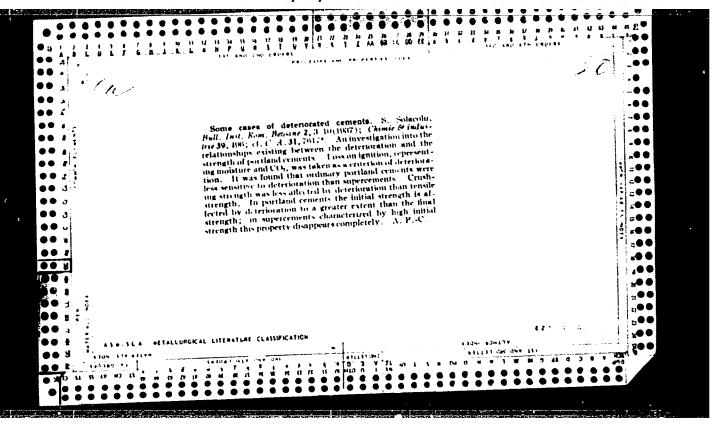
1. Research Center for Inorganic Chemistry of the Emments Conducty, Bucharost, I Polizu Streat.

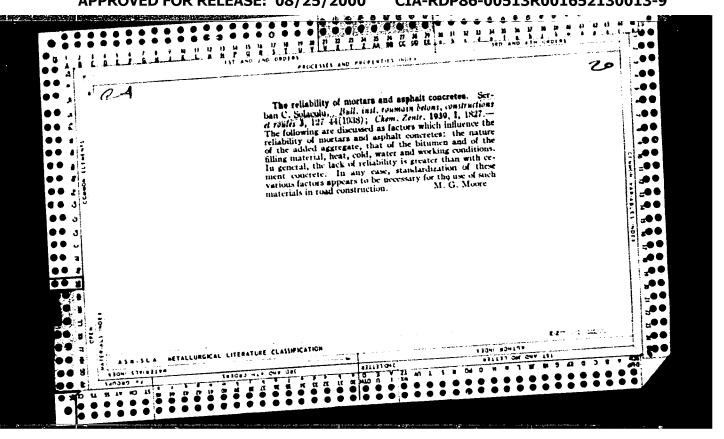
GLOCOLU, Paulina; DINESCU, Amalia; DINESCU, R.; GOTHARD, Fr.; MINEA, I.; RUSSU, R.; SCLACOLU, S.

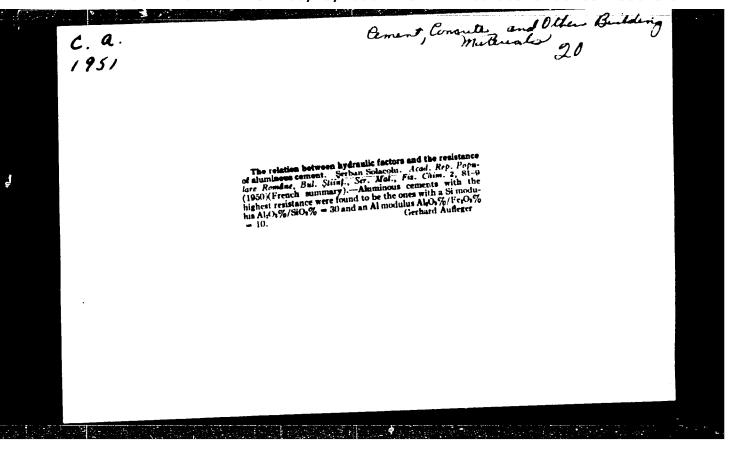
Synthesis and applications of some molecular sieves. Pt. 2. Rev chemie Min petr 15 no.7:404-408 Jl 164







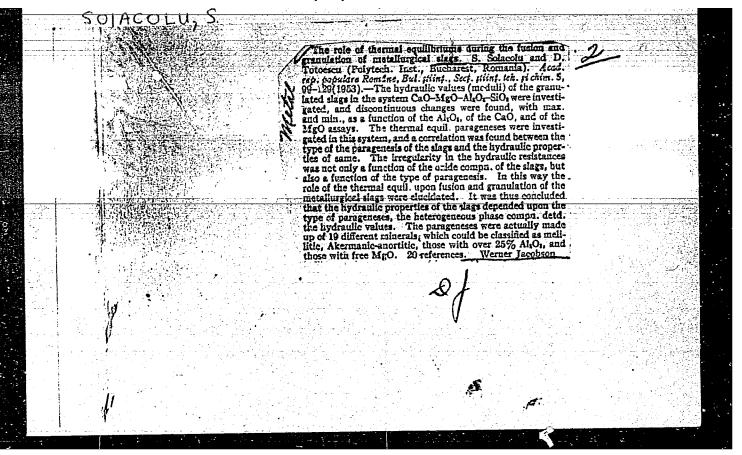




SOLACULU, S.

"Utilization of Bauxite for the Simultaneous Production of Aluminous Cement, Iron, and Aluminum. p/345." BULETIN STITUTIFIC. Vol.3, No. 2-4, Apr./Dec. 1951. Bucuresti, Rumania.

SO: Monthly List Of East European Accessions, L.C. Vol. 2, No. 11, Nov. 1953, Uncl



# SDLACLU, S.; SERBAN, D.

Refrectory aluminous cements. p. 465. (INDUSTRIA CONSTRUCTILOR SI A MATERIAIELOP DE CONSTRUCTII. No. 7, 1957, Rumania)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 2, No. 12, Dec. 1957 Uncl.

SOLACOLU, SERBAN

H-13d

MUMANIA/Chemical Technology, Chemical Products and Their Application, Part 2. - Ceramics, Glass, Binders, Concretes, - Binders, Concretes and Other Silicate Building Materials.

Abs Jour: Referat. Zhurnal Khimiya, No 10, 1958, 33337.

Author : Serban Solacolu, Dumitru Serban.

: Not given.

: Refractory Alumina Cements. Inst

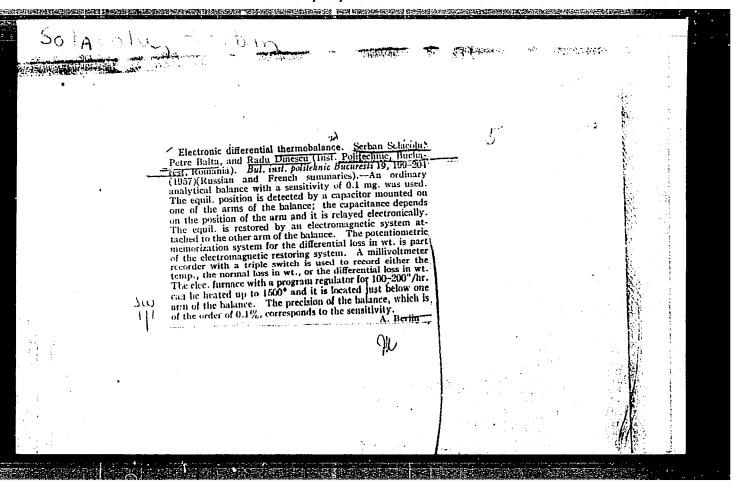
Orig Pub: Ind. constructiilor și mater. constr., 1957, No 8,

465-472.

Abstract: The results of experimental studies of hydraulic properties of some highly aluminous cements (HC) of the system SiO<sub>2</sub> = Al<sub>2</sub>O<sub>2</sub> - Fe<sub>2</sub>O<sub>3</sub> - CaO are presented. In all, 22 synthetic mixtures containing (in # by weight) Si0<sub>2</sub> from 3 to 10, Al<sub>2</sub>0<sub>3</sub> from 37.4 to 79.6, Fe<sub>2</sub>0<sub>3</sub> from

: 1/2 Card

CIA-RDP86-00513R001652130013-9" **APPROVED FOR RELEASE: 08/25/2000** 



SOLAGOLU, S. (Prof. Dr.)

S. Solacolu, "Die Phasen thermischer Gleichgewichte des Systems MgO-3CaO.SiO<sub>2</sub>-2CaO.SiO<sub>2</sub>-3CaO.Al<sub>2</sub>O<sub>3</sub>-4CaO.Al<sub>2</sub>O<sub>3</sub>.Fe<sub>2</sub>O<sub>3</sub>. Die Gleichgewichte der dolomitischen feuerfesten Stoffe," <u>Bericht der Deutschen Keramischen Gesellschaft e. V.</u> (Wuerzburg), 34/5, May 1957, pp. 141-6.

Received on 6 November 1956. From the Silicate Chemical Laboratory of the Polytechnical Institute, Eucharest. The author's address is given as Bucharest Polytechnic Institute, Calea Grivita 132.

H-13

HUNGARY/Chemical Technology. Chemical Products and Their Applications. Ceramics. Glass. Binding Materials. Concrete.

Abs Jour: Ref Zhur-Khimiya, No 7, 1959, 24247

: Solacolu, S. Author

Inst : 5 : New Investigations Pertaining to Structure Title

and Hydraulic Properties of Blast Furnace

Slags.

Orig Pub : Epitoanyag, 1958, 10, No 4-5, 149-153

Abstract: Hydraulic (binding) properties of the blast furnace slag (S), belonging to the CaO - MgO - Al<sub>2</sub>O<sub>3</sub> - SiO<sub>2</sub> system are presented graphically in equilibrium diagrams of the MgO - CaO - Al<sub>2</sub>O<sub>3</sub> - SiO<sub>2</sub>, in the range

: 1/2 Card

14-66

88372

G/005/61/000/001/003/008 B007/B058

15,2210

AUTHOR:

Solacolu, Serban

TITLE:

Influence of the Liquid Phase on Properties of Magnesite

Refractories

PERIODICAL:

Silikattechnik, 1961, No. 1, pp. 17-21

TEXT: The physical properties of magnesite refractories depend on their composition, the amount of liquid phase formed at higher temperature, and on the mineralizing process of solid phases in a state of equilibrium, especially the periclase. The position of magnesite-, dolomite-magnesite-, spinel-magnesite-, and forsterite-magnesite refractories in the multi-component system MgO - MgO.Al<sub>2</sub>O<sub>3</sub> - MgO.Fe<sub>2</sub>O<sub>3</sub> - 2MgO.SiO<sub>2</sub> - 2CaO.SiO<sub>2</sub> was determined by the author in a previous paper (Ref. 1). For the determination of the liquid-phase influence on the firing properties (shrinkage, porosity), these refractories were synthesized, the amount of liquid phase

at 1550°C was calculated from the thermal equilibrium and recorded in a diagram in dependence on composition expressed in modules. Further diagrams

Card 1/2

X

Influence of the Liquid Phase on Properties of Magnesite Refractories

88372 G/005/61/000/001/003/008 B007/B056

show shrinkage during firing and porosity as a function of composition. A direct proportionality between firing properties and the content of liquid phase was established; a summary diagram shows that shrinkage during firing increases and porosity decreases with increasing content of liquid phase. As the second component, the mineralizing process of the periclase determining the firing properties, was kept constant through the constant cluded from consideration. The present studies show that when selecting besides the raw material composition, must be considered, since there are properties due to the equality of their liquid phase. There are 6 figures,

ASSOCIATION: Laboratory of Silicate Chemistry of the Polytechnic Institute, Bucharest

Card 2/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652130013-9"

X

SOLACCLU, Serban

Thermal equilibriums of the system MgO-MgO.Al<sub>2</sub>O<sub>3</sub>-(MgO.Fe<sub>2</sub>O<sub>3</sub>)-2MgO.SiC<sub>2</sub>-2CaO.SiO<sub>2</sub> applicable to the mechanism of the reactions of magnesite refractories. Studii cerc metalurgic 6 no.4:425-450 161.

1. Laboratorul chimia fizica a silicatilor, Institutul politehnic, Bucuresti.

SOLACOLU, Serban, prof. dr.

"Refractory materials in the siderurgical industry" by Janos Sovegyarto. Reviewed by Serban Solacolu. Metalurgia constr mas 13 no. 4: 373-374 Ap '61.

S/081/62/000/021/034/069 B149/B101

NAME OF THE OFFICE OFFICE OF THE OFFICE OF THE OFFICE OFFI

Solacolu, S., Szabó, Andrei AUTHORS:

Production of magnesia based on the Solvay method of soda TITLE:

production, and its conversion into refractory materials

Referativnyy zhurnal. Khimiya, no. 21, 1962, 332, abstract PERIODICAL:

21K216 (Épitöanyag" 1962, v. 14, no. 2, 1962, 59 - 64 [Hung.;

summaries in Russ. and Ger.])

TEXT: Calcined and slaked dolomite is used for the regeneration of  $NH_z$ in soda manufacture. A suspension of Mg(OH) which results from this is decanted, filtered, washed and clinkered. The product, containing 80 - 85% MgO, is used directly for constructing soles of furnaces. If, however, CaCO, is precipitated from the suspension by passing CO, and if the resulting Mg(HCO3)2 is separated by decantation and converted into .MgCO3 by adding Na2CO3 the product is a very pure basic magnesium carbonate, which is used for the manufacture of refractory materials. The calcination is done in two stages: first at 800°C in an annular kiln to

Card 1/2

是自己的人们的人,我们就是这些人,我们就是这个人,我们就是这个人,我们就是这个人,我们就是这个人,我们就是这个人,我们也不是这个人,我们也不会会不会不会,我们就 第一章

Production of magnesia based on ...

S/081/62/000/021/034/069 B149/B101

obtain MgO powder, then in a rotating furnace, together with a mineralizer, until clinkering occurs. Ilmenite, bauxite, siderite, or ankerite are used as mineralizers. Chromo-magnesite and magnesite-chromite refractories are prepared, with a ratio 1:1 of rough and fine fractions. With increasing chromite content, the water absorption and heat resistance of the goods are increased. It was found that complete or partial substitution of chromite by bauxite makes it possible to obtain magnesite-spinel refractory materials; the baking temperature for chromo-magnesite goods is 1710°C and for magnesite goods 1620°C. [Abstracter's note: Complete translation.]

Card 2/2

SOLACOLU, Serban (Bukarest); BIRUAC, Ioan (Bukarest)

Remarks about A Jerphanion's lecture entitled "Use of natural gas in porcelain firing." Epitoanyag 15 no.11: 419 N '63.

SOLACOLU, S.; DINESCU, R.; SINGER, G.; BALAN, V.

Viscosity of coal slags, effect of certain factors. Rev electrotechm energet 9 no.1:123-131 64

1. Corresponding Member of the Rumanian Academy (for (Solacolu)

SOLACOLU, Seban; ROTARU, Maria

Binding materials for magnesitic and chromagnesitic refractors. Studii cerc metalurgie 9 no.2:361-371 '64.

1. Laboratory of Physical Chemistry of Silicates, Polytechnic Institute, Bucharest.

 AUTHOR: Ciocoiu, Paulina, Dinescu, A. Russu, R., Solacolu, S.  TITLE: The synthesis and uses of some granular molecular sieves from kaolin SOURCE: Revista de Chimie, v. 15, No TOPIC TAGS: molecular sieve, kaolin, granulation, Malaxa process, kaolin ext of reproducing the synthesis of molecular gagents and using methods which var literature. The kaolin found in Aghiret the 1st (78% kaolin) or 2nd (75% kaolin) to yield sieves with high absorption capatities were first are reported in tables, and a schematic given. The various steps used in the Cord 1/3	molecular sieves. II. The synthesis. 7, 1964, 404-408  kaolin sieve preparation, kaolin trusion, calcination  sults of experiments carried out with ar sieves from kaolin, without the ar sieves from those previously des y slightly from those previously des grade of this material may be used grade of this material may be used pacities (25-32g H <sub>2</sub> O/100g) was pore pacities (25-32g H <sub>2</sub> O/100g) was pore	h the intention ddition of bind- poribed in the material; either both being able of 4A. The pal; the results	
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in detail, as follows: 1) The granulation of the kaolin to the desired dimensions (length diameter) may be carried out by 2 methods: method (a) is based on the extrusion of wet kaolin paste, after previous heating at 120C and addition of 30% water ("Malaxa" process), drying and grinding of the extruded material, and final sorting of the granules; b) grinding of dry kaolin cakes directly to the desired dimensions, and subsequent sorting of the granules. 2) The calcination of the granules is carried-out partially in a laboratory oven and partially in an electric oven type KYLS, of 100 liters capacity, equipped with silica rods. The optimum temperature of calcination is 670-700C (not to exceed 750C), for a duration of 5 hours. Both ovens are equipped with temperature regulators, calibrated in intervals of ± 20C. 3) The alkali treatment phase is carried out with a 9-10% NaOH solution (not to exceed 16%), for a period of 5-10 hours. Mechanical stirring of the kaolin granules is not recommended. Consequently, the operation is carried out partially in a boiler without stirrer, and partially in a boiler equipped with a Cottrell pump system, for the reflux of the solution. During this operation, to produce a maximum absorption capacity of the molecular sieve structure, the diameter of the granules cannot exceed 2 mm. Following alkali treatment, the molecular sieves obtained are washed with water until the washing solution reaches a pH of 9-9.5. A schematic diagram of a laboratory-

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ACCESSION NR: AP4044191

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scale apparatus for the alkali treatment of the kaolin granules is given. 4) The ion-exchange phase (exchange of sodium ions for calcium ions) is carried out by 2 treatments with a 25-33% CaCl<sub>2</sub> solution, for 4 hours at the boiling temperature and under normal pressure. These parameters are considered optimal for the production of maximum absorption capacities. Following each treatment with CaCl<sub>2</sub> the molecular sieves are washed with water in order to eliminate the traces of sodium ions remaining on the surface of the granules. 5) Activation of the sleves is carried out by a process of calcination for 1 hour at a temperature of 300-350C. Prolonged calcination (4-5 hours) results in a stable absorption capacity, having a lower value (60-70% of the initial value). The molecular sieves obtained by this process have a mechanical resistance of 1-2 kg/mm<sup>2</sup>, as compared with 0.1-0.5 kg/mm<sup>2</sup> for those manufactured outside of Rumania, with a specific area between 500 and 700 m<sup>2</sup>/g, and a real density of 1.9-2.1 g/cm<sup>3</sup>. A diagram of an industrial installation for the manufacture of the 4A molecular sieves is given. The authors conclude by stressing the importance and specificity of the method for sieves having 4A pores. Molecular sieves with 5A pores, prepared by this method, have much lower absorption capacities. Orig, art. has: 3 figures and 7 tables.

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ASSOCIATION: None

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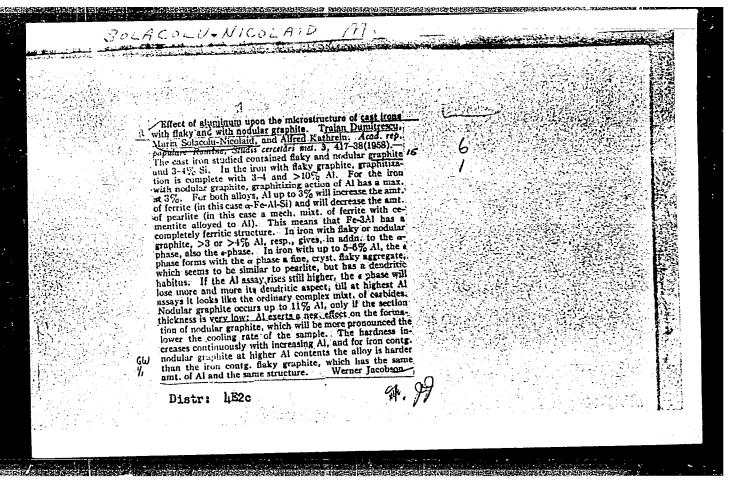
SUB CODE: GC, MT

NO REF SOV: 000 Card 3/3 OTHER: 013

SOLACOLU, Serban

Correlation between phaseal, thermal equilibriums of the MgO-CaO-Al<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub> system with the nature of vitreous structures and the properties of sulfatic strengthening of the slag of high furnaces. Studii cerc chim 13 no.10:653-658 O '64.

1. Center of Inorganic Chemistry, Rumanian Academy, Bucharest, 1 Polizu Street.



# SOLAJ, V.

Review of current problems of friction, wear and lubrication. p. 1552.

TEHNIKA. Beograd, Yugoslavia. Vol. 14, no. 9, Sept. 1959.

Monthly List of East European Accessions (EEAI) LC Vol. 9, no. 2, Feb. 1960.

Uncl.

Solaja, V.

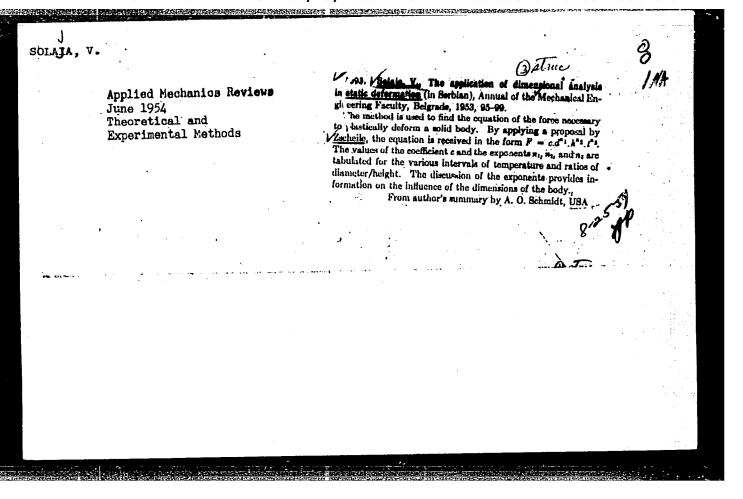
"Application of Dimensional Analysis for Culculation of Stress in Static Deformation." p. 95, (2808MIX, 1952/53. Beograd, Yugoslavia.)

SO: Monthly List of East European Accassions, (EEAL), hC, Vol. 4, No. 5, May 1955, Uncl.

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"Filling up the Die in Static Deformation." p. 111, (ZECHNIK, 1952/53. Beograd, Yugoslavia.)

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Chacking microsters and deal gauges, p. 50. (ESCAPAD, Tel. 10, Tel. 1, 195...)

So: Northly list of Past European Accessions. (EAL, IC, Tel 4, No. 6, June 195.. Uncl.
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SCLAJA, V.

SOLAJA, V. Contribution to the study of cutting factors of a turning lathe with small chip cross sections. p. 865.

Vol. 10, no. 6, 1955 TEHNIKA Beograd, Yugoslavia

So: Eastern European Accession Vol. 5 No. 4 April 1956

SOLAJA, V.

Contribution to the knowledge of properties of lathes for finishing cuts. p. 221. Vol. 11. No. 2, 1956. TEHNIKA. Beograd, Yugoslavia.

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Solognall, Sivio, 1.

The effect of conditions of metory mothing soints on the mulity of surface in Inits Chul Christia, v. 1763.

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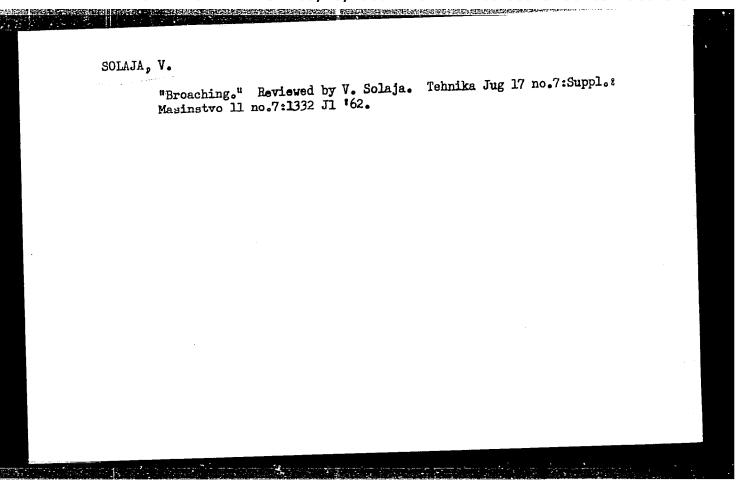
So: Monthly List of East Buroween Accessions. (CDAL) 10, Vol. 6, To. 7, July 1957. Finel.
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SOLAJA, V.

Ceramic tools. p. 1087.

(TEHNIKA. Vol. 12, No. 7, 1957, Beograd, Yugoslavia)

SO: Monthly List of East European Accessions (EFAL) Lc. Vol. 6, No. 10, October 1957. Uncl.



SOLAJA, Vladimir, prof., ing.

Report on the papers of the 3d group: "Development in the fields of electrical and mechanical engineering". Tehnika Jug 17 no.2: 309-313 F 162.

(Yugoslavia—Economic policy) (Yugoslavia—Electrical engineering) (Yugoslavia—Mechanical engineering)

Pogadanki o hygienie zolnierskiej. Zarszawa Wydawn. "Prasa Wojskowa" 1950/ 73 p. (Biblioteka Zolneirza. Seria 2. Popularnonaukowa Poznaj Swiat 17) Chats about hygiene for soldiers. Illus. Z.

SO: Monthly List of East European Accessions, Vol. 3, No. 2, Library of Congress, February 1954, Uncl.

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Entermining the thickness of thin films. Izv. AN Arm. SSR.

For. fiz.-mat. nauk 16 no.6:131-136 \*63. (MIRA 17:8)

SOLAKHYAN, P.S.

Standardizing the working drawings of structural elements of precast reinforced concrete buildings and structures to be built in seismic regions. Trudy MIEI no.14:183-189 159. (MIRA 13:1)

1. Zakavkazskiy filial Gipromeza.
(Precast concrete construction)
(Earthquakes and building)

MIROLOV, Svilen, dots., kend. tekhn. nauki; MATEEVA, Liliana, asistent; SOLAKOV, Encho, asistent

Determining the productivity of drying chambers. Durvomebel prom 5 no.4:8-12 Jl-Ag 1(2.

1. Vissh lesotekhnicheski institut. 2. Chlena na Redaktsioneta kolegiia, "Durboobrabotvashta i mebelna promishlenost" (for Nikolov).

SOLAKOV, E. D. (Sofia)

Binomial equations. Mat i fiz Bulg 7 no. 2: 45-49 '64.

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TSONCHEV, Iv., k.m.n.; SCLAKOV, P.

cortisone in toxic influenzal cinditions. Suvrem med., Sofia no.4;
59-63 *60.

1. Iz vutreshnoto otdelenie na Okruzhnata bolnitsa, Plavdiv.

(CORTISONE ther)

(INFLUENZA ther)
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Solalov, I. G. - "Mechanical vioration of structural parts made of reinforced concrete", Stroit. prom-st;, 1949, No. 4, p. 10-14.

50: U-h110, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 19, 1919).

KONTOROVICH, I. Ye., Prof.; SOLALOVA, L. A., Docent

Dr. Technical Sci

"The anti-corresion gualities of mitrified from alloys"

Trudy, Moscow Aviation Inst. of Technology, No. 4, 1948

SOLAN, L.

The increasing concentration of the West-European automobile industry.

P. 3. (STET DETERU.) (Praha, Czechoslovakia) Vol. 12, No. 1, Jan. 1958

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EN LET THE SERVER MATERIALS. AND

SOLAN, E.

Profits will be assured in any case.

P. 67. (SVET MCTORU.) (Praha, Gzechoslovakia) Vol. 12, No. 3, Jan. 1958

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Bisorders of rhythm in acute myocardial infarct. Med. intern. 13 no.10:

1385-1393 0 '61.

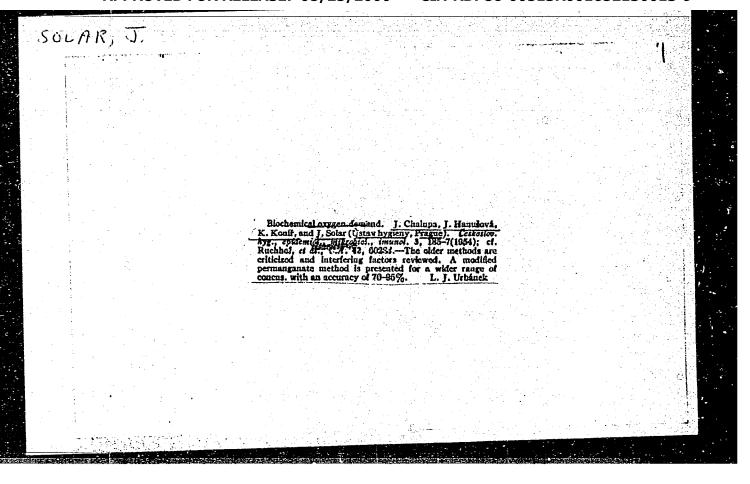
1. Lucrare efectuata in Clinica medicala "Bernat Andrei", prof.

P. Teodorescu.

(MYOCARDIAL INFARCT complications)

(ARRHYTHMIA etiology)

(HEART BLOCK etiology)



SOLAR, J.

Safety in the operation of tractors. p. 440. Beginning winter repairs. p. 3 of cover. New Czechoslovak plows. p. 4 of cover.

MECHANISACE ZEMEDELSTVI. Praha. Vol. 4, no. 22, Nov. 1954.

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, no. 3, March 1956

SCLAR, J.

SOLAR, J. Accidents can be prevented. p. 17.

Vol. 6, no. 6, Mar. 1956 MACHANISACE ZEMEDELSTVI AGRICULTURE Czechoslovakia

So: East European Accession, Vol. 5, No. 5, May 1957

STRMISKA, J., MUDr.; HONSA, K., MUDr.; SOLAR, J., MUDr.

Local use of hydrocortisone in various post-traunatic states.
Acta chir. orthop. traum. cesk. 23 no.5:266-269 Sept 56.

1. Vyzkumny ustav traunatologicky v Brne, reditel prof. Dr.
Vladimir Novak.

(WOUNDS AND INJUNIES, compl.
ther., hydrocortisone (Cz))

(HYDROCORTISONE, ther. use
post-traum. compl. (Cz))

SOLAR, Jaroglev. dr.; SAICVA, Valeria, dr.

Property relation in the new Economic Code. Prace mzda 12 no.11:518-520 N '64.

SOLAR, Stanko, inz.

Gray iron easting for the manufacture of engines in 0.7-ton electric arc furnaces. Stroj vest 10 no. 1/2:53-55 Ap 164.

1. Maribor Automobile and Engine Factory, Maribor.

SOLAR, Vaclay: PCHOVA, Marie

New type of Salmonella isolated from rat. Cesk. hyg. epidem.
mikrob. 2 no.2:154-157 Apr '53.

1. Ustav epidemiologie a mikrobiologie, Praha. Reditel doc. dr.
K.Paska.

(SALMONELLA,
isolation from rat of new type)

GRYC, Jaroslav, inz.; PAROUBEK, Zdenek, inz.; SOLAR, Zdenek, inz.

Fast temperature adjustment of glass furnaces. Sklar a keramik 12 no.1:3-9 Ja '62.

1. Osvetlovaci skle, n.p., Valasske Mezirici (for Gryc).
2. Prumyslove sklo, n.p., Praha (for Paroubek). 3. Technicke sklo, n.p., Sazava nad Sazavou (for Solar).